

## Recombinant Human SMNDC1, His-tagged

**Cat. No.** SMNDC1-3362H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human SMNDC1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 28.9kDa (258aa).                                                                                                                                                                                                                                                         |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>              | SMNDC1 (survival motor neuron domain containing 1) is an essential splicing factor required for spliceosome assembly that belongs to the SMN family. It contains one Tudor domain with significant similarity to SMN (Survival Motor Neuron) and is expressed in skeletal muscle, pancreas and heart, localizing to Cajal bodies and nuclear speckles. Mutations in which are cause of autosomal recessive proximal spinal muscular atrophy. |
| <b>Form</b>                     | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT, 100mM NaCl.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>                   | > 90% by SDS - PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Concentration</b>            | 0.5mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MSED LAKQLA SYKAQLQQVE AALSGNGENE<br>DLLKL KKDLQ EVIELTKDLL STQPSETLAS SDSFASTQPTH SWKVGDKCM AVWSE<br>DGQCY EAEIEEIDEE NGTAAITFAG YGNAEVTPLL NLKPVEEGRK AKEDSGNKPM                                                                                                                                                                                                                                                     |

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SKKEMIAQQR EYKKKKALKKAQRIKELEQE REDQKVKWQQ FNNRAYSKNK KG  
QV KRSIFA SPESVTGKVG VGTCTGIADKP MTQYQDTSKY NVRHLMPQ.

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Pathways**

Spliceosome

## GENE INFORMATION

**Gene Name**

SMNDC1 survival motor neuron domain containing 1 [ Homo sapiens ]

**Synonyms**

survival motor neuron domain containing 1; SMNR; SPF30; SMNDC1; survival of motor neuron-related-splicing factor 30; SMN-related protein; 30 kDa splicing factor SMNrp; survival motor neuron domain-containing protein 1; splicing factor 30, survival of motor neuron-related ; Survival motor neuron domain-containing protein 1

**Gene ID**

10285

**mRNA Refseq**

NM\_005871

**Protein Refseq**

NP\_005862

**MIM**

603519

**UniProt ID**

O75940

**Chromosome  
Location**

10q23

**Function**

RNA binding; protein binding

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